

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **10145341 A**

(43) Date of publication of application: **29.05.98**

(51) Int. Cl.  
**H04L 1/00**  
**H04L 1/16**  
**H04L 29/06**

(21) Application number: **08298800**

(22) Date of filing: **11.11.96**

(71) Applicant: **MATSUSHITA ELECTRIC IND CO LTD**

(72) Inventor: **IWABUCHI KEIICHI**  
**TAKAKU JUNICHI**

(54) **SIGNAL PROCESSING UNIT FOR RADIO COMMUNICATION**

transmission buffer and then sent by a communication means (S7).

(57) Abstract:

COPYRIGHT: (C)1998,JPO

PROBLEM TO BE SOLVED: To improve the transfer efficiency of data by varying a frame length, depending on the quality state of a radio channel.

SOLUTION: A frame is received by a communication means and stored by a reception buffer (S1). A 1st quality analysis section confirms the presence of a CRC error of the frame and counts it for a prescribed period and gives the result to a main control section. When an error is detected, the processing is transited to the processing S3 and when it not detected, the processing is transited to the processing S4 (S2). When an error is detected, reception data are requested again, and a normal frame is received (S3). When no error is detected, a data switch section gives the data to a terminal equipment via a switching terminal buffer (S4). Transmission data are stored once in a terminal buffer (S5). When the main control section discriminates a radio channel, based on the result of the 1st quality analysis section, a frame generating section generates a frame whose length is changed into a decided frame length (S6). The transmission frame is stored in a

